

States of Matter Practice Quiz

Match the statement on the left with the description on the right.

H_1 Matter gets warmer.

A The particles have limits to how fast they move which are determined by the attractions that keep them from moving freely.

A_2 Matter has 3 phases (states).

B Some particles move fast enough to escape the surface.

E_3 Matter can be a gas.
A gas fills its container.

C The particles can move only so fast until they start moving more freely without moving faster.

D_4 A gas exerts a pressure on its container.

D The particles move freely and bounce into the walls of the confining solid.

G_5 Matter can be a liquid.
A liquid has a changeable shape but a fixed volume.

E The particles have enough energy so that they can move fast and almost totally independent of each other.

B_6 A liquid can evaporate.

F The particles have only enough energy to vibrate in fixed positions determined by how much attraction there is between them.

F_7 Matter can be a solid.
Solids have definite shapes and definite volumes.

G The particles have only enough energy so that they can move around each other somewhat freely even though they stay together.

C_8 Matter, when heated, can undergo phase changes without a temperature change.

H The particles move faster. Their average kinetic energy gets greater. Even at very high temperatures, some particles move fast while others move slowly.